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TITLE : PRODUCTION OF PERFUME GLYCOSIDE

ABSTRACT : PURPOSE: To obtain a perfume glycoside for a sustained release fragrant component, etc., by reacting β -galactosidases with a mixture of a perfume such as L-menthol, cis-3-hexenol, anis alcohol and cinnamyl alcohol and a lactose.

CONSTITUTION: The objective perfume glycoside useful for a sustained release fragrant component is obtained in excellent productivity, economical efficiency and safety by dissolving a perfume such as L-menthol, cis-3-hexenol, anis alcohol and cinnamyl alcohol and a lactose or a lactose-containing substance in 5mM potassium phosphate buffer solution (pH7.0) containing 40vol.% acetonitrile, adding a fungus containing β -galactosidase [e.g. Escherichia coli N-4830-1/ps110 (FERM-P13907)] to the resultant solution, reacting at 30°C for 4hr, treating at 100°C for 5min to stop the reaction, distilling out the organic solvent under reduced pressure, removing unreacted substance and subjecting an aqueous layer fraction to column chromatography.

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